

## CLAIMS

1. A polymerizable ion-conductive liquid crystalline composite, which comprises an organic monomer compound and an organic or inorganic salt  
5 complexed therewith, wherein the organic monomer compound contains, in its molecular structure, an ion-complexing moiety and a mesogen moiety that expresses liquid crystalline phase, along with a polymerizable moiety.

2. An anisotropic ion-conductive polymeric liquid crystalline  
10 composite, wherein the polymerizable ion-conductive liquid crystalline composite of claim 1 is polymerized at the polymerizable moiety of the organic monomer compound.

3. An anisotropic ion-conductive polymeric liquid crystalline  
15 composite, comprising in its molecular structure,  
a polymer structure-fixing moiety;  
an ion-complexing moiety;  
a mesogen moiety that express liquid crystalline phase; and  
an organic or inorganic salt, complexed therewith.

20

4. A process for producing the anisotropic ion-conductive polymeric liquid crystalline composite of claim 2 or 3, which comprises:  
polymerizing a composite of an organic monomer compound and an organic or inorganic salt, wherein the composite contains an ion-complexing moiety and a  
25 mesogen moiety that express liquid crystalline phase, along with a polymerizable moiety.

5. The process for producing ~~the~~ anisotropic ion-conductive

polymeric liquid crystalline composite of claim 4, wherein the composite is polymerized by light-irradiation or heating.